



photo by Glenn Chambers

Timber rattlesnake

ON THE COVER



Trap Shooter Samantha Foppe by David Stonner

6 Otter Chaos

This mama river otter has her paws full raising five playful pups.

12 Shooting Star
Samantha Foppe is one of America's top trap shooters. And she's only 15.

DEPARTMENTS

- What Is It?
- You Discover
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- 14 Wild Jobs
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Cliff White

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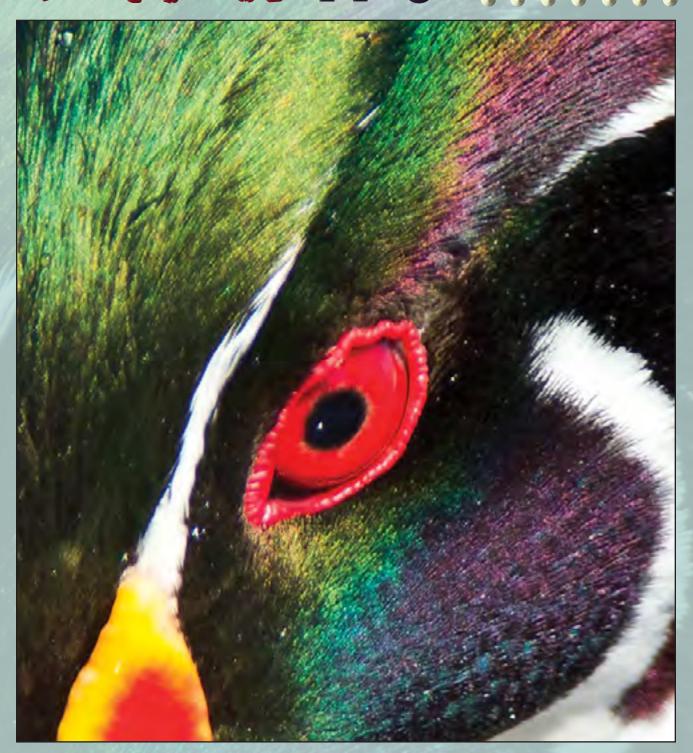


Visit *xplormo.org* for cool videos, sounds, photos, fun facts, and more!

WHATIS?

DON'T KNOW?

Jump to Page 17 to find out.



- 1 I'm dressed to impress from my crest to my chest.
- 2 When I need to feed, I dabble for seed.
- I was born in a tree, but now I fly free.
- 1 don't usually quack when I'm under attack.



Feed Birds a BAGEL

Stale bagels are for the birds, but don't toss them in the trash. Instead, use them to feed your feathered friends. Here's how: Smear peanut butter on one side of a bagel. Roll the bagel in birdseed so seeds stick to the peanut butter. Poke a sharpened pencil through the bagel for a perch. Loop a piece of yarn through the bagel's hole, and hang the bagel in a tree where you can watch birds come to eat.

Rainbow trout

HOOK A RAINBOW

If you love to fly fish but don't like crowds, try Missouri's trout parks in winter. From November 8 to February 10, the parks allow only fly fishing and you must release any fish you catch. Those rules — along with low temperatures keep crowds thin. Maramec Spring Park is open daily from 8 a.m. to 4 p.m. Bennett Springs, Montauk, and Roaring River state parks are open Friday through Monday from 8 a.m. to 4 p.m. For all the details, cast your line to mdc.mo.gov/node/10808.

on't stay inside when the snow gets to blowing. Go outside to discover nature coming and going. Here are a few fun things to do in December and January.



holes in a heavy-duty trash bag for your head and arms, and slip on the bag. Then find a snow-covered hill, run down it a short distance to pick up speed, dive onto your belly, and sliiide.

Don't miss the chance to Discover Nature at

Meet our national emblem at EAGLE DAYS.

Springfield Conservation Nature Center; January 18 and 19; For info and times, call 417-888-4237.

Fish a river at night during KIDS' GIGGING.

Twin Pines Conservation Education Center. Winona; December 7, 4-10 p.m. Register at 573-325-1381.

Find out who's hooting it up during an NW PRNW Rockwoods Reservation, Wildwood; December 6, 6:30-8 p.m. Register at

636-458-2236.

Smallmouth

2 | XPLOR

Bald eagle

GO DUCK HUNTING

Duck hunting is tons of fun. Why else would hunters get up before sunrise and brave cold weather to spend their mornings hiding in muddy marshes? If you'd like to see if duck hunting is all it's quacked up to be, the best way to get your waders wet is to ask an experienced hunter to take you under his or her wing. For season dates, places to hunt, and rules to follow, flock to mdc.mo.gov/node/303.

SPOTA CONS

For the past 10,000 years,
Comet ISON, a mile-wide glob
of rock and ice, has been streaking
toward the sun. The sun's heat and gravity
could blow ISON apart, or the comet could
make a U-turn and begin its journey out of our
solar system, glowing spectacularly as it speeds by
Earth. We'll know in December if ISON will fizzle or
sizzle, so check the sky each evening just after sunset.
If ISON has survived its brush with the sun, you'll
see the comet's tail fanned out just above
the western horizon.

Make a Cedar Wreath

Cedar wreaths smell great and are easy to make. Just clip off the outermost branches of a cedar tree. You'll need enough greenery to fill a grocery bag. Bend a wire coat hanger into a circle. Tie the branches to the hanger with twine or floral wire, making sure the green end of each new branch covers up the brown end of the last branch you tied. When your hanger is completely covered with cedar, tie on a red bow, and your wreath is ready to hang.



these fun events.

at PIRATES OF COLUMBIA BOTTOM.

Columbia Bottom Conservation Area, St. Louis; December 7, I-3 p.m. Register at 314-877-6014. Try out your new air rifle or .22

at FAMILY PLINKING.
August A. Busch Shooting
Range, Defiance;
December 28,
7:30–9:30 a.m.
Register at
636-441-4554.



Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at xplormo.org/node/2616.



ust because the sun has gone down doesn't mean you have to, too. Keep playing in the snow by building this lantern to light your way.

HERE'S WHAT YOU NEED

• Warm clothes • Snowballs • Flashlight or candle • A dark night





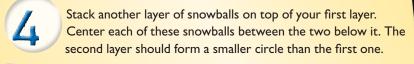
Make about 20 grapefruit-sized snowballs.
Pack the snow tightly so the snowballs won't fall apart.

Find a flat place to build your lantern. A patio table or front porch works well. You also can use your feet to stamp down a flat place in the snow.

Arrange eight or nine snowballs into a circle.

Make sure most of the snowballs are touching each other, but leave a small opening between two of the snowballs. This is where you'll slide

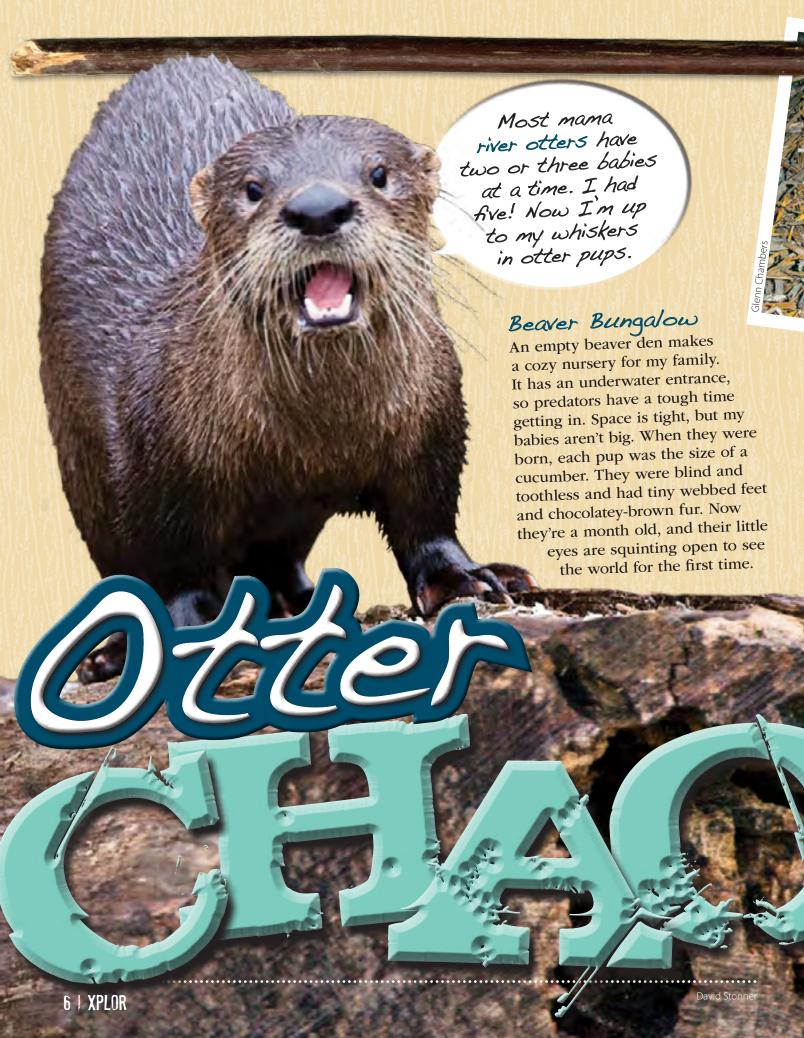
in a flashlight or candle when you're ready to "light" your lantern.



Keep adding layers, making sure each new layer is smaller than the layer below it. You'll soon have a pyramid shape with a single snowball on top.

Slide a candle or flashlight into the space you left in the bottom layer. Light the candle or turn on the flashlight and watch your lantern glow!

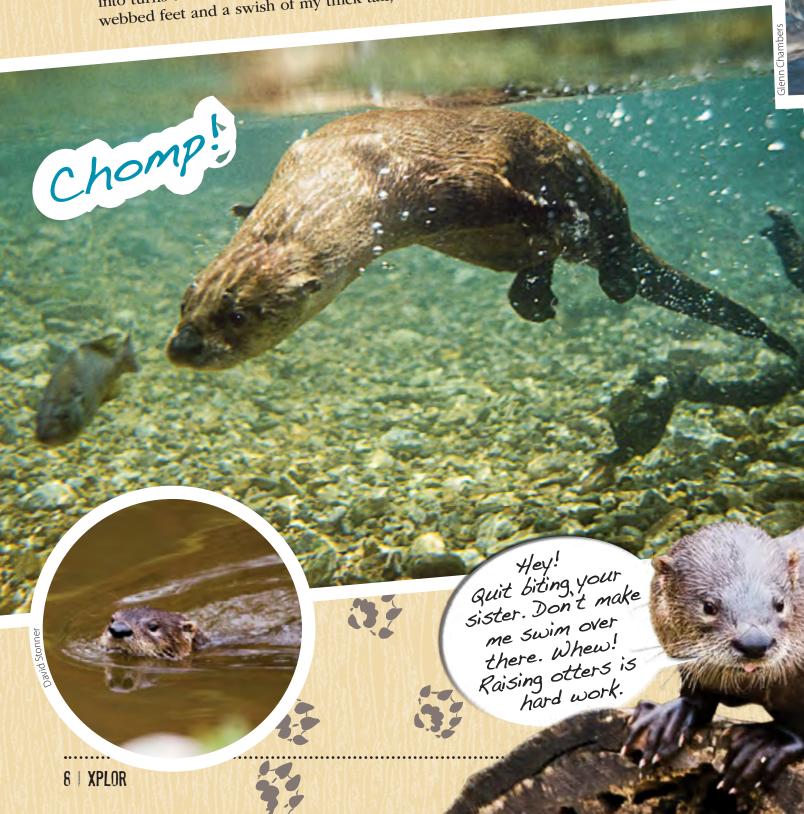








Me Time
Whenever I need a little "me time," I slip out into the cool, silent water. River otters are mostly nocturnal, which means my me time is usually at night. I cruise on the surface of the stream looking for fish. When I spot one, I arch the chase is on! I twist my long, streamlined body my back and dive. Then the chase is on! I twist my long, streamlined body into turns that would make a ballet dancer dizzy. With a few strokes of my though the fastest fish. Webbed feet and a swish of my thick tail, I can out-swim all but the fastest fish.



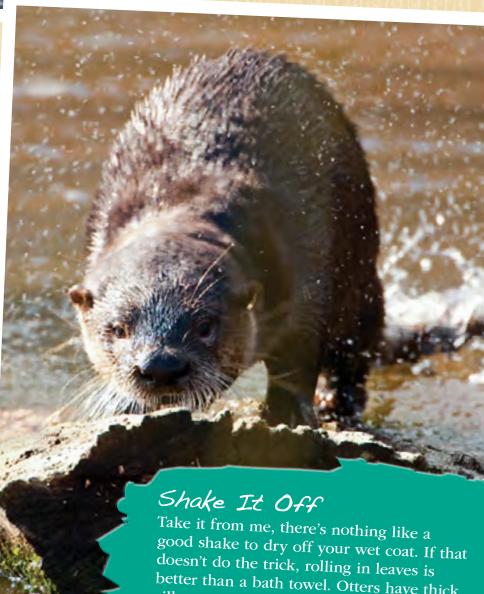


Swimming Lessons

Believe it or not, baby river otters don't know how to swim. When they're about 12 weeks old, I start swimming lessons. My kids aren't the most enthusiastic students — in fact, some of them are scared of water — so I have to drag them in. I work with one pup at a time. First, I teach it how to float. Then, how to paddle and turn. Finally, I teach it to dive. When each day's lesson is over, I carry the pups back to the den for milk ZZZZZ and a well-deserved nap.

Angling Adaptations

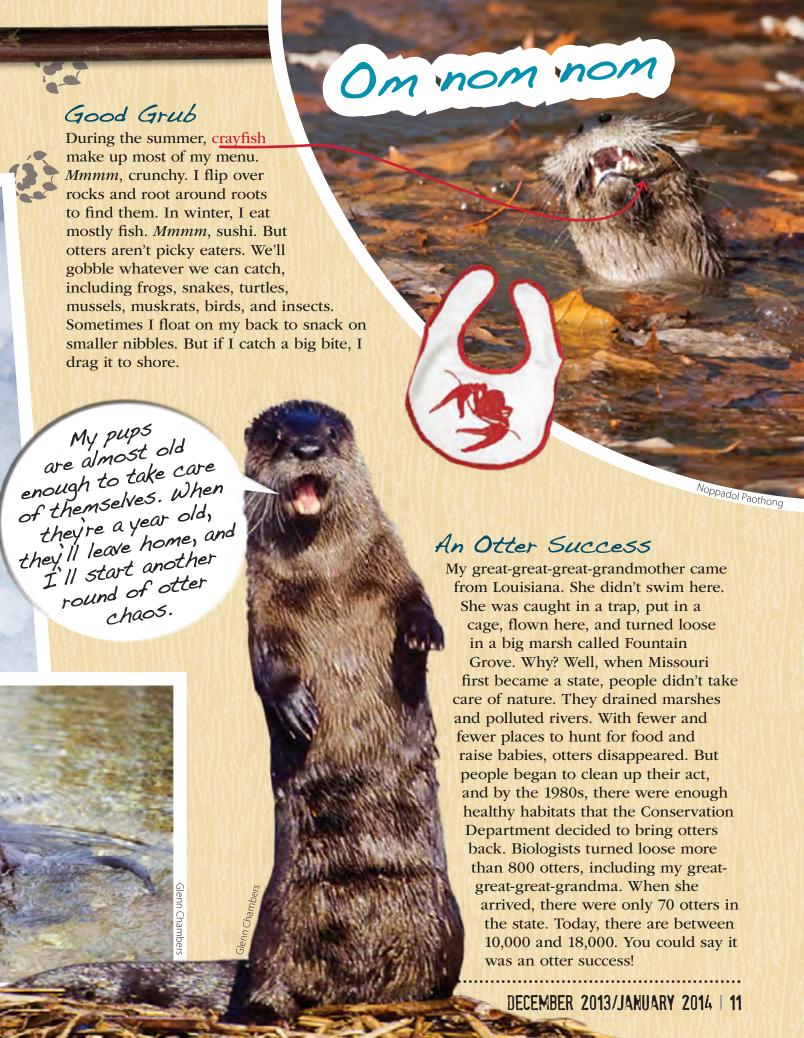
Have you ever tried to catch a fish — with your mouth? Lucky for me, I have a few tricks that give me the upper paw. Bushy whiskers help me feel things in murky water. Nose clips and earplugs aren't needed. I just squeeze my schnoz and ears shut. On land, I'm terribly nearsighted, but underwater I see much better. And, I can hold my breath for 4 minutes, which is plenty of time to nab dinner.



better than a bath towel. Otters have thick, silky coats of waterproof fur. When that's the only thing between you and chilly winter water, you learn to take care of it!

David Stonner







Samantha Foppe shoulders her shotgun, leans slightly forward, and yells, "pull."



The instant the word escapes Sam's mouth, an orange saucer flies out of a concrete box and streaks away at 42 miles per hour. If you could examine the saucer, you'd see it's about 4 inches wide, Frisbee-shaped, and made of clay. But you wouldn't have time, because half a second after the saucer is airborne, Sam squeezes the trigger on her shotgun and blasts the saucer to smithereens.

In trapshooting, people of all ages and abilities compete against each other. To hit the flying saucer, which trap shooters call a "clay bird," you need pinpoint accuracy, lightning-quick reflexes, and Zen-like concentration. Sam has all three, and the 15-year-old from High Ridge has become one of the best trap shooters in the country.

Sam's been around guns her whole life. Her dad took Sam deer hunting when she was 2. When she was 4, Sam shot her first gun, a youth-model .22. When she was 5, she got a compound bow and practiced with it for weeks so she could hunt deer. When she was 6, she shot her first deer with a rifle.

•••••



Jan and Gwen Morris, who coach trapshooting at the Conservation Department's Jay Henges Shooting Range, heard that Sam liked to hunt and encouraged her to try trapshooting. Sam hit 13 out of 25 clay birds her first time on the trap field. She was hooked, and soon joined Team Henges Trapshooting Club.

It was tough at first. "I was 9, and my gun was taller than I was," Sam says. "It was heavy and hard to hold steady."

But Sam worked hard. She practiced bringing her gun to her shoulder, sometimes 50 times a day, until it felt automatic. She exercised, watched what she ate, and lifted weights.

Soon, her work started to pay off.

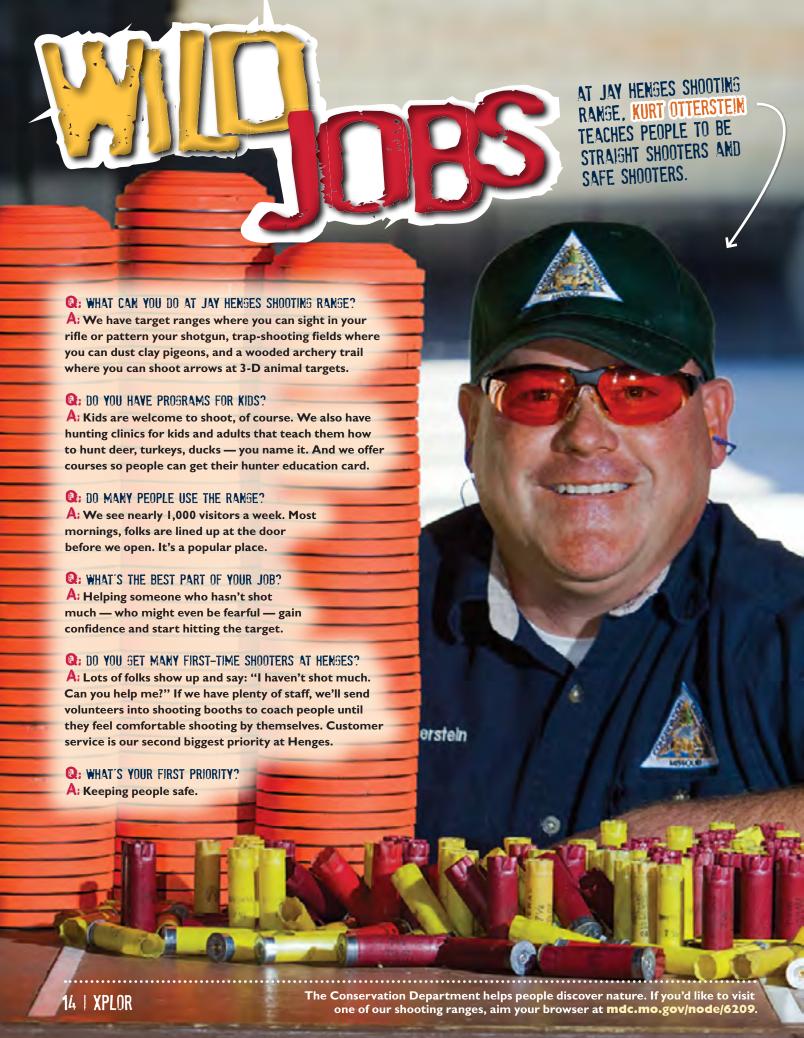
Trapshooting has three events. In singles, you shoot at single clay birds launched from 16 yards away. Doubles is similar, except two clay

birds are launched at once, and you try to hit both. In handicap, the better you shoot, the farther away you must stand from where the targets are launched.

When Sam was 11, she became the youngest girl in the country to hit 100 clay birds in a row in singles. When she was 12, Sam beat 773 other shooters to win the Missouri High School Shoot-Off, breaking 174 out of 175 clay birds and beating seven senior boys in the finals. When she was 13, Sam became the youngest person ever to shoot from the farthest-back position in the handicap event. Now, she's the second best shooter in the country in her age division.

Coaches from the U.S. Olympic Team have phoned to ask about Sam's plans. For now, she isn't interested in the Olympics. Sam wants to shoot for a college team so she can earn a degree.

"I'm just happy to be on a trap field," Sam says. "The only other place I'd rather be is in a deer stand."





WOODHOUSE TOAD

My goal is to lay 25,000 eggs this spring. I'll need lots of offspring because most of my tadpole toddlers will be snarfed up by predators.

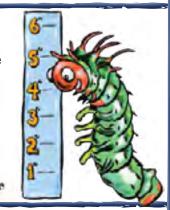


TIMBER ATTLESMAKE

I plan to stockpile enough venom in my glands to kill 3.000 deer mice. But since I'll eat only 20 meals next year, I won't need to use much of it.

HICKORY HORNED DEVIL

I may start off itty-bitty, but I hope to grow as big as a hot dog and become Missouri's largest larva. If you grew as much as I plan to grow, you'd be 30 feet tall.



EASTERN COTTONTAIL

I plan to poop a lot nearly 350 pellets every day, in fact. If you lined my pellets end to end, by next New Year's my poop should stretch half a mile.

CRITTERS DON'T MAKE EW YEAR'S RESOLUTIONS. BUT IF THEY DID, HERE'S WHAT A FEW MIGHT SAY.

TURKEY VULTURE

My goal is to try new foods. I'll eat anything - skunks, birds, snakes, fish, frogs, snails, rotten fruit, even worms — as long as it's dead.



BUMBLEBEE

I plan to be extra buzzy and busy - in 2014. I'll need to be if I hope to meet my goal of visiting 500 flowers a day.

RAIMBOW TROUT

My resolution is simple: survive trout-fishing season at Bennett Springs State Park. To do that, I'll need to dodge nearly 150,000 anglers.



STRIPED SKUNK

In a year's time, I'll produce enough scent to fill a soda can. But don't dare pop the top! That much funky fluid could leave 200 coyotes drenched in stench.



Bird Feeder

utting up a bird feeder in winter is a win-win. Birds get a free meal when other food is scarce, and you get to watch colorful, lively critters when much of nature is gray and still. To make feeder watching even more fun, challenge your family members to a friendly competition. Pass out photocopies of the score card on the next page and see who can rack up the most points in a week's time. Will you be at the top of the flock or end up a feather-watching flop?



Want a free poster packed with bird-feeding tips and pictures of Missouri's common birds? Email your name and mailing address to pubstaff@mdc.mo.gov and ask for "Feeding Backyard Birds."

	√	Score Card Colors If you see	white-breasted nuthatch give yourself this many points.
		A cardinal	1
4		A blue jay	1
		A chickadee (We have two kinds of chickadees in Missouri: black-capped and Carolina. They look nearly identical, so it takes a sharp eye to tell them apart.)	1
		A tufted titmouse	1
		A brown bird (Give yourself 1 point for each kind you see. There are many kinds of brown birds.)	1
		A woodpecker (Downy, hairy, red-bellied, red-headed, and pileated woodpeckers all visit bird feeders, especially if you've set out suet or peanuts. Give yourself 2 points for each kind of woodpecker you see.)	2
		A purple bird (such as a house finch or purple finch)	2
		A chubby bird (Birds rarely get fat, but they often fluff up their feathers to trap heat to stay warm.)	2
		Any bird bigger than a blue jay (such as a mourning dove or crow)	2
		A seed stasher (a bird that flies away with seed in its beak to hide the seed so it can snack on it later)	3
		A messy eater (a bird that knocks seed onto the ground as it feeds)	3
		A bird using its feet to scratch through snow or leaves under the feeder (Birds such as dark-eyed juncos scratch to find hidden seeds.)	3
		A bully bird (Some birds, such as blue jays and nuthatches, chase other birds away so they can have the seed all to themselves.)	4
		A foraging flock — three or more kinds of birds sitting on your feeder at the same time (Birds team up to look for food. Chickadees, tufted titmice, and nuthatches often hang out together.)	4
		Feeding frenzy — 10 or more birds using your feeder at once	5
		A hawk swooping down to pluck a bird off your feeder (Don't get mad at the hawk. Hawks have to eat, too! Consider yourself lucky to see nature in action.)	5
		A bird you've never seen before (Many birdwatchers keep a "life list" of every kind of bird they've ever seen. Give yourself 6 points for each new bird you add to your life list.)	6
		A squirrel munching seed at your feeder	Subtract 3 points

— FROM PAGE I —

With red eyes, rusty chests, and shiny green heads with crests, male wood ducks win the prize for Missouri's most colorful ducks. Wood ducks feed by dabbling, which means they

dip their heads underwater to strain out seeds and insects with their bills. Female woodies nest in holes in trees and man-made nest boxes. When startled, wood ducks give a squeaky whistle as they burst into flight.



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FREE TO MISSOURI HOUSEHOLDS



How now brown trout? Brown trout originally were found only in Europe. They were brought to the U.S. in the 1880s because people liked to catch them. In Missouri, browns are grown in a hatchery and released into Lake Taneycomo and several spring-fed Ozark streams. These fish can reach enormous sizes. Conservation Department biologists have encountered browns that weigh more than 30 pounds!